

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>LAKE ERIE</b>				
<b>MI WATERS OF LAKE ERIE COUNTY</b>				
DETROIT RIVER LIGHT	07/19/07 15:36 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	07/19/07 15:36 EST		0	42.1N, 83.2W
<b>MI WATERS OF LAKE ERIE COUNTY</b>				
MONROE HARBOR	07/19/07 15:37 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	07/19/07 15:37 EST		0	41.92N, 83.4W
<b>MI WATERS OF LAKE ERIE COUNTY</b>				
MONROE HARBOR	07/19/07 16:00 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	07/19/07 16:00 EST		0	41.92N, 83.4W
Strong thunderstorms developed in the vicinity of a stalled cold front and moved southeast across portions of Lake Erie. Wind gusts were measured as high as 40 knots.				
<b>MI WATERS OF LAKE ERIE COUNTY</b>				
LUNA PIER	07/26/07 20:35 EST		0	Marine Hail (1.50 in)
	07/26/07 20:35 EST		0	41.83N, 83.45W
Strong Thunderstorms producing large hail moved over the Michigan Waters of Lake Erie.				
<b>LAKE HURON</b>				
<b>OUTER SAGINAW BAY &amp; SW OF ALABASTER TO PT AUSTIN MI COUNTY</b>				
POINT AU GRES	07/05/07 15:55 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	07/05/07 15:55 EST		0	43.97N, 83.65W
Strong thunderstorms rolled across the outer portions of Saginaw Bay. Wind gusts were measured at 42 Knots.				
<b>HBR BEACH TO PT SANILAC MI COUNTY</b>				
FORESTVILLE	07/09/07 15:15 EST		0	Marine Hail (0.75 in)
	07/09/07 15:15 EST		0	43.67N, 82.62W
<b>LH HBR BEACH TO PT SANILAC 5NM OFFSHORE TO INTL BORDER COUNTY</b>				
FORESTVILLE	07/09/07 15:15 EST		0	Marine Hail (0.75 in)
	07/09/07 15:15 EST		0	43.67N, 82.62W
<b>INNER SAGINAW BAY &amp; SW OF PT AU GRES TO BAY PORT MI COUNTY</b>				
POINT AU GRES	07/09/07 15:35 EST		0	Marine Thunderstorm Wind (MG 54 kt)
	07/09/07 15:35 EST		0	43.97N, 83.65W ~ 43.85N, 83.38W
<b>OUTER SAGINAW BAY &amp; SW OF ALABASTER TO PT AUSTIN MI COUNTY</b>				
POINT AU GRES	07/09/07 15:35 EST		0	Marine Thunderstorm Wind (MG 54 kt)
	07/09/07 15:35 EST		0	43.97N, 83.65W
Severe thunderstorms with penny sized hail and measured wind gusts to 54 knots moved across Saginaw Bay.				
<b>INNER SAGINAW BAY &amp; SW OF PT AU GRES TO BAY PORT MI COUNTY</b>				
POINT AU GRES	07/10/07 16:13 EST		0	Marine Thunderstorm Wind (MG 54 kt)
	07/10/07 16:13 EST		0	43.97N, 83.65W
<b>OUTER SAGINAW BAY &amp; SW OF ALABASTER TO PT AUSTIN MI COUNTY</b>				
POINT AU GRES	07/10/07 16:13 EST		0	Marine Thunderstorm Wind (MG 54 kt)
	07/10/07 16:13 EST		0	43.97N, 83.65W
<b>LH PT SANILAC TO PT HURON 5NM OFFSHORE TO INTL BORDER COUNTY</b>				

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
PORT HURON	07/10/07 16:16 EST		0	Marine Thunderstorm Wind (EG 54 kt)
	07/10/07 16:16 EST		0	42.98N, 82.42W
<b>PT SANILAC TO PT HURON MI COUNTY</b>				
PORT HURON	07/10/07 16:16 EST		0	Marine Thunderstorm Wind (EG 54 kt)
	07/10/07 16:16 EST		0	42.98N, 82.42W
<b>LH PT AUSTIN TO HBR BEACH MI 5NM OFFSHORE TO INTL BORDER COUNTY</b>				
GRIND STONE CITY	07/10/07 18:00 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/10/07 18:00 EST		0	44.05N, 82.9W
<b>PT AUSTIN TO HBR BEACH MI COUNTY</b>				
HARBOR BEACH	07/10/07 18:00 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/10/07 18:00 EST		0	43.83N, 82.65W
<b>LH PT SANILAC TO PT HURON 5NM OFFSHORE TO INTL BORDER COUNTY</b>				
LAKEPORT	07/10/07 20:00 EST		0	Marine Thunderstorm Wind (EG 52 kt)
	07/10/07 20:00 EST		0	43.12N, 82.48W
<b>PT SANILAC TO PT HURON MI COUNTY</b>				
LEXINGTON	07/10/07 20:00 EST		0	Marine Thunderstorm Wind (EG 52 kt)
	07/10/07 20:00 EST		0	43.27N, 82.53W
<b>Thunderstorms developed ahead of an approaching cold front and moved east across Saginaw Bay and Lake Huron. A 54 knot wind gust was measured over Saginaw Bay.</b>				
<b>PT SANILAC TO PT HURON MI COUNTY</b>				
PORT HURON	07/19/07 15:00 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/19/07 15:00 EST		0	42.98N, 82.42W
<b>OUTER SAGINAW BAY &amp; SW OF ALABASTER TO PT AUSTIN MI COUNTY</b>				
POINT AU GRES	07/19/07 17:10 EST		0	Marine Thunderstorm Wind (MG 43 kt)
	07/19/07 17:10 EST		0	43.97N, 83.65W
<b>LH PT AUSTIN TO HBR BEACH MI 5NM OFFSHORE TO INTL BORDER COUNTY</b>				
GRIND STONE CITY	07/19/07 17:30 EST		0	Marine Thunderstorm Wind (EG 43 kt)
	07/19/07 17:30 EST		0	44.05N, 82.9W
<b>PT AUSTIN TO HBR BEACH MI COUNTY</b>				
PORT AUSTIN	07/19/07 17:30 EST		0	Marine Thunderstorm Wind (EG 43 kt)
	07/19/07 17:30 EST		0	44.05N, 83W
<b>Strong thunderstorms developed in the vicinity of a stalled cold front and moved southeast across portions of southern Lake Huron. Wind gusts were measured as high as 43 knots.</b>				
<b>LAKE ST CLAIR</b>				
<b>LAKE ST CLAIR (U.S. PORTION) COUNTY</b>				
NEW BALTIMORE	07/05/07 18:20 EST		0	Marine Hail (1.00 in)
	07/05/07 18:20 EST		0	42.68N, 82.73W
<b>DETROIT RIVER COUNTY</b>				
BELLE ISLE	07/05/07 18:50 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	07/05/07 18:50 EST		0	42.25N, 83.02W
<b>Thunderstorms impacted the marine waters of Lake St Clair and the Detroit River with wind gusts near 40 knots and hail the size of quarters.</b>				
<b>DETROIT RIVER COUNTY</b>				

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WYANDOTTE	07/19/07 15:05 EST		0	Marine Thunderstorm Wind (EG 43 kt)
	07/19/07 15:05 EST		0	42.2N, 83.17W

### LAKE ST CLAIR (U.S. PORTION) COUNTY

METROPOLITAN BEACH	07/19/07 15:17 EST		0	Marine Thunderstorm Wind (EG 41 kt)
	07/19/07 15:17 EST		0	42.47N, 82.82W

### LAKE ST CLAIR (U.S. PORTION) COUNTY

ST. CLAIR SHORES	07/19/07 15:20 EST		0	Marine Thunderstorm Wind (EG 39 kt)
	07/19/07 15:20 EST		0	42.3N, 82.87W

### ST CLAIR RIVER COUNTY

ALGONAC	07/19/07 15:20 EST		0	Marine Thunderstorm Wind (EG 39 kt)
	07/19/07 15:20 EST		0	42.62N, 82.53W

Strong thunderstorms developed in the vicinity of a stalled cold front and moved southeast across Lake St Clair and the Detroit and St Clair Rivers. Mariners reported wind gusts as high as 50 MPH.

## MICHIGAN, East

### LIVINGSTON COUNTY

2.0 WNW FOWLERVILLE	07/05/07 13:10 EST		0	Hail (0.75 in)
	07/05/07 13:10 EST		0	42.6811N, 84.1063W

### LIVINGSTON COUNTY

4.0 S FOWLERVILLE	07/05/07 13:15 EST		0	Hail (0.75 in)
	07/05/07 13:15 EST		0	42.6122N, 84.07W

### LIVINGSTON COUNTY

5.0 SSW FOWLERVILLE	07/05/07 13:15 EST		8K	Thunderstorm Wind (EG 56 kt)
	07/05/07 13:15 EST	1	0	42.6032N, 84.1076W

Fowlerville fire officials reported at least 10 trees down in the area, with one landing on a car at the intersection of Elliott and Mason Roads. The driver of the vehicle was taken to an area hospital with minor injuries. National Weather Service Meteorologists surveyed the damage and estimated straight line wind gusts up to 65 MPH.

### LIVINGSTON COUNTY

4.0 S HOWELL	07/05/07 13:30 EST		0	Thunderstorm Wind (EG 56 kt)
	07/05/07 13:30 EST		0	42.5422N, 83.93W

Law enforcement and a local newspaper reported several trees down in Marion Township.

### LIVINGSTON COUNTY

1.8 W PINCKNEY	07/05/07 13:37 EST		0	Thunderstorm Wind (EG 52 kt)
	07/05/07 13:37 EST		0	42.45N, 83.9651W

A local newspaper reported a tree and wire down across Cedar Lake Road between Monks and Patterson Lake roads near Hell Creek Ranch in Putnam Township, causing the road to close.

### WAYNE COUNTY

2.0 SE BELLEVILLE	07/05/07 14:35 EST		0	Thunderstorm Wind (EG 52 kt)
	07/05/07 14:35 EST		0	42.1796N, 83.4424W

Law enforcement reported a tree down.

### WAYNE COUNTY

ROMULUS	07/05/07 14:40 EST		1K	Thunderstorm Wind (EG 56 kt)
	07/05/07 14:40 EST		0	42.22N, 83.38W

Trained spotters reported the windows blown out of the County Road Commission building.

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MIDLAND COUNTY</b>				
1.0 S SANFORD	07/05/07 14:58 EST		0	Hail (0.75 in)
	07/05/07 14:58 EST		0	43.6555N, 84.38W
<b>SAGINAW COUNTY</b>				
3.0 WSW SHIELDS SHIELDS	07/05/07 15:58 EST		0	Hail (0.75 in)
	07/05/07 16:15 EST		0	43.4034N, 84.1052W ~ 43.42N, 84.05W
<b>SAGINAW COUNTY</b>				
6.0 E ST CHARLES	07/05/07 16:12 EST		0	Thunderstorm Wind (EG 56 kt)
	07/05/07 16:12 EST		0	43.3N, 84.0308W
Trained spotters reported numerous large tree branches and several 30-foot tall trees down. Wind gusts were estimated at 65 MPH.				
<b>SAGINAW COUNTY</b>				
5.0 NW BURT	07/05/07 16:25 EST		0	Hail (1.00 in)
	07/05/07 16:25 EST		0	43.2811N, 83.9902W
<b>GENESEE COUNTY</b>				
FLINT	07/05/07 17:11 EST		0	Thunderstorm Wind (EG 56 kt)
	07/05/07 17:11 EST		0	43.03N, 83.68W
Law enforcement reported two trees down on the northwest side of Flint.				
<b>GENESEE COUNTY</b>				
2.0 W BURTON	07/05/07 17:15 EST		0	Hail (0.75 in)
	07/05/07 17:30 EST		0	42.98N, 83.6695W
<b>GENESEE COUNTY</b>				
FLINT	07/05/07 17:15 EST		20K	Thunderstorm Wind (EG 61 kt)
	07/05/07 17:15 EST		0	43.03N, 83.68W
Law enforcement reported 4 trees down and 7 utility poles snapped. Wind gusts were estimated at 70 MPH.				
<b>GENESEE COUNTY</b>				
BURTON	07/05/07 17:20 EST		0	Hail (1.00 in)
	07/05/07 17:20 EST		0	42.98N, 83.63W
<b>GENESEE COUNTY</b>				
BURTON	07/05/07 17:20 EST		0	Thunderstorm Wind (EG 52 kt)
	07/05/07 17:20 EST		0	42.98N, 83.63W
A trained spotter reported many tree branches down in the area and estimated wind gusts at 60 MPH.				
<b>GENESEE COUNTY</b>				
BURTON	07/05/07 17:20 EST		4K	Thunderstorm Wind (EG 56 kt)
	07/05/07 17:20 EST		0	42.98N, 83.63W
Trained spotters reported roof damage to a building near the intersection of Saginaw and Atherton Roads.				
<b>GENESEE COUNTY</b>				
4.0 S FLINT	07/05/07 17:22 EST		0	Hail (1.00 in)
	07/05/07 17:22 EST		0	42.9722N, 83.68W
<b>GENESEE COUNTY</b>				
4.0 SSE FLINT	07/05/07 17:22 EST		0	Hail (1.25 in)
	07/05/07 17:22 EST		0	42.9766N, 83.6497W
<b>GENESEE COUNTY</b>				
4.0 SSE FLINT	07/05/07 17:22 EST		1.50K	Thunderstorm Wind (EG 56 kt)
	07/05/07 17:22 EST		0	42.9766N, 83.6497W

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Trained spotters and central dispatchers reported tree branches 6 to 7 inches in diameter down, a tree down, and shingles blown off a house.				
<b>GENESEE COUNTY</b>				
2.0 SE FLINT	07/05/07 17:24 EST		0	Hail (0.88 in)
	07/05/07 17:24 EST		0	43.0096N, 83.652W
<b>GENESEE COUNTY</b>				
1.0 SW BURTON	07/05/07 17:30 EST		0	Hail (1.50 in)
	07/05/07 17:30 EST		0	42.9698N, 83.644W
<b>GENESEE COUNTY</b>				
2.0 SE FLINT	07/05/07 17:30 EST		0	Hail (1.00 in)
	07/05/07 17:30 EST		0	43.0096N, 83.652W
<b>GENESEE COUNTY</b>				
3.0 SE FLINT	07/05/07 17:30 EST		0	Hail (1.00 in)
	07/05/07 17:30 EST		0	42.9993N, 83.6381W
<b>GENESEE COUNTY</b>				
GRAND BLANC	07/05/07 17:30 EST		3K	Thunderstorm Wind (EG 54 kt)
	07/05/07 17:30 EST		0	42.92N, 83.62W
Law enforcement reported numerous small trees and 1 utility pole down.				
<b>GENESEE COUNTY</b>				
GRAND BLANC 2.0 SE GRAND BLANC	07/05/07 17:30 EST		0	Hail (0.75 in)
	07/05/07 17:30 EST		0	42.92N, 83.62W ~ 42.8996N, 83.5921W
<b>GENESEE COUNTY</b>				
3.0 E GRAND BLANC	07/05/07 17:35 EST		0	Hail (0.88 in)
	07/05/07 17:35 EST		0	42.92N, 83.5608W
<b>OAKLAND COUNTY</b>				
4.3 W ORTONVILLE	07/05/07 17:50 EST		0	Thunderstorm Wind (EG 56 kt)
	07/05/07 17:50 EST		0	42.85N, 83.5138W
A local newspaper reported multiple trees and power lines down at the Tamarack Camps campground. No injuries nor damages were reported.				
<b>OAKLAND COUNTY</b>				
ORTONVILLE	07/05/07 17:50 EST		15K	Thunderstorm Wind (EG 56 kt)
	07/05/07 17:50 EST		0	42.85N, 83.43W
A local newspaper reported multiple trees and power lines down. The Brandon fire chief reported damage to structures, vehicles, and telephone poles and lines. Total damages were estimated at roughly \$15K.				
<b>OAKLAND COUNTY</b>				
CLARKSTON	07/05/07 17:55 EST		0	Thunderstorm Wind (EG 56 kt)
	07/05/07 17:55 EST		0	42.73N, 83.4W
A trained spotter reported a large section of a tree 1 foot in diameter down near the intersection of Sashabaw and Maybee Roads.				
<b>OAKLAND COUNTY</b>				
1.0 E WHITE LAKE	07/05/07 18:00 EST		0	Hail (0.75 in)
	07/05/07 18:00 EST		0	42.68N, 83.5303W
<b>OAKLAND COUNTY</b>				
4.0 NE PONTIAC	07/05/07 18:10 EST		10K	Thunderstorm Wind (EG 56 kt)
	07/05/07 18:10 EST		0	42.6709N, 83.2244W
A National Weather Service employee reported numerous large trees down throughout a subdivision near Waterford. A local newspaper confirmed reports of widespread trees down all across Waterford Township. A few homes received minor damages.				

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>SAGINAW COUNTY</b>				
2.0 WSW SHIELDS	07/05/07 18:10 EST		0	Hail (0.75 in)
	07/05/07 18:10 EST		0	43.4089N, 84.0868W
<b>MACOMB COUNTY</b>				
1.0 WNW NEW BALTIMORE	07/05/07 18:20 EST		0	Hail (1.00 in)
	07/05/07 18:20 EST		0	42.6855N, 82.7482W
<b>WAYNE COUNTY</b>				
2.0 SSW HARPER WOODS	07/05/07 18:55 EST		0	Hail (1.50 in)
	07/05/07 18:55 EST		0	42.3733N, 82.935W
<b>WAYNE COUNTY</b>				
GROSSE PT PARK	07/05/07 18:58 EST		0	Thunderstorm Wind (EG 52 kt)
	07/05/07 18:58 EST		0	42.37N, 82.92W
A trained spotter reported large tree branches 9 inches in diameter down.				
Severe thunderstorms developed over the region during the late afternoon hours of July 5th. There were numerous reports of large hail and damaging winds. The most intense winds occurred along a path stretching from just south of Saginaw to just north of Pontiac. These intense thunderstorm winds, gusting as high as 70 MPH, brought down many large trees. Remarkably, only a few homes sustained minor damages. There were also reports of large hail, some the size of ping pong balls. Numerous trees were also blown down across Livingston County, especially around the Fowlerville area. By sunset, the atmosphere became less capable of supporting severe thunderstorms and the event was over. No injuries were reported. At least 50 thousand customers lost power.				
<b>MIDLAND COUNTY</b>				
MIDLAND	07/09/07 13:35 EST		0	Thunderstorm Wind (EG 50 kt)
	07/09/07 13:35 EST		0	43.62N, 84.23W
Law enforcement reported a large tree branch down.				
<b>MIDLAND COUNTY</b>				
2.0 ESE MIDLAND	07/09/07 13:38 EST		0	Hail (0.75 in)
	07/09/07 13:38 EST		0	43.6089N, 84.1931W
<b>BAY COUNTY</b>				
3.0 NE BENTLEY	07/09/07 15:00 EST		0	Thunderstorm Wind (EG 58 kt)
	07/09/07 15:00 EST		0	43.9807N, 84.0874W
The public reported 5 large trees down near Bentley.				
<b>TUSCOLA COUNTY</b>				
CASS CITY	07/09/07 15:13 EST		0	Hail (0.88 in)
	07/09/07 15:13 EST		0	43.6N, 83.17W
<b>TUSCOLA COUNTY</b>				
CASS CITY	07/09/07 15:13 EST		0	Thunderstorm Wind (EG 50 kt)
	07/09/07 15:13 EST		0	43.6N, 83.17W
A trained spotter reported large tree branches down.				
<b>SANILAC COUNTY</b>				
PALMS	07/09/07 15:15 EST		0	Hail (0.75 in)
	07/09/07 15:15 EST		0	43.62N, 82.77W
<b>SAGINAW COUNTY</b>				
4.0 W NELSON	07/09/07 15:55 EST		0	Hail (0.75 in)
	07/09/07 15:55 EST		0	43.33N, 84.3095W

A cold front slowly crawled south through the lower peninsula of Michigan. Plenty of sunshine broke out over the Tri-Cities and sent temperatures to near 90 degrees. The atmosphere became unstable and the stage was set for severe thunderstorms to develop. Thunderstorms developed shortly after noon and were intense, but short-lived. A few storms along the cold front showed some

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
rotation and tornado warnings were issued for Tuscola and Sanilac counties. No tornadoes were reported. The event only lasted a couple of hours and the last warning was canceled shortly after 1600 EST as the northernmost storms moved out over Lake Huron, and the southernmost storms weakened rather rapidly. Most of the events with this episode were marginally severe with one solid severe event in northern Bay County.				
<b>MIDLAND COUNTY</b>				
1.0 N SANFORD	07/10/07 15:12 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/10/07 15:12 EST		0	43.6845N, 84.38W
Law enforcement reported a large tree down on a house. Damages to the home were minor. Many trees and power lines were down in the heavily populated area off North West River Road next to Sanford Lake. Power lines had to be pulled from several homes. Total damages were estimated at roughly \$5K.				
<b>MIDLAND COUNTY</b>				
3.0 NNE SANFORD	07/10/07 15:13 EST		0	Thunderstorm Wind (EG 56 kt)
	07/10/07 15:13 EST		0	43.7101N, 84.3571W
Law enforcement reported trees and power lines down at a Junior High School.				
<b>SAGINAW COUNTY</b>				
3.0 WNW SAGINAW	07/10/07 15:35 EST		1.50K	Thunderstorm Wind (EG 56 kt)
	07/10/07 15:35 EST		0	43.4366N, 84.0252W
A trained spotter reported two trees down and shingles blown off a house.				
<b>MACOMB COUNTY</b>				
RICHMOND	07/10/07 16:01 EST		0	Thunderstorm Wind (EG 52 kt)
	07/10/07 16:01 EST		0	42.82N, 82.75W
A trained spotter reported numerous tree branches 6 inches in diameter down.				
<b>OAKLAND COUNTY</b>				
ROCHESTER HILLS	07/10/07 16:01 EST		0	Thunderstorm Wind (EG 55 kt)
	07/10/07 16:01 EST		0	42.68N, 83.13W
Law enforcement reported a large spruce tree down.				
<b>ST. CLAIR COUNTY</b>				
5.0 NNW PORT HURON	07/10/07 16:16 EST		50K	Thunderstorm Wind (EG 56 kt)
	07/10/07 16:16 EST		0	43.0468N, 82.4578W
Law enforcement reported numerous trees and power poles down in Fort Gratiot, covering a 2 square mile area between Keewahdin and Carrigan Roads. Several homes received damage from falling trees. No one was injured. Total property damages were estimated at roughly \$50K.				
<b>MACOMB COUNTY</b>				
4.0 NNW NEW BALTIMORE	07/10/07 16:25 EST		0	Thunderstorm Wind (EG 52 kt)
	07/10/07 16:25 EST		0	42.7334N, 82.7601W
A trained spotter reported several large tree branches down.				
<b>HURON COUNTY</b>				
PIGEON	07/10/07 16:55 EST		8K	Thunderstorm Wind (EG 56 kt)
	07/10/07 16:55 EST		0	43.82N, 83.27W
A trained spotter reported numerous trees down, damaging at least one house and one shed.				
<b>SANILAC COUNTY</b>				
ARGYLE	07/10/07 17:32 EST		0	Thunderstorm Wind (EG 56 kt)
	07/10/07 17:32 EST		0	43.57N, 82.93W
Law enforcement reported power lines and a tree down.				
<b>SHIAWASSEE COUNTY</b>				

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NEW LOTHROP	07/10/07 17:59 EST		0	Thunderstorm Wind (EG 56 kt)
	07/10/07 17:59 EST		0	43.12N, 83.97W
A trained spotter reported a tree 35 feet tall down.				
<b>GENESEE COUNTY</b>				
1.0 SE FLUSHING	07/10/07 18:02 EST		3K	Thunderstorm Wind (EG 52 kt)
	07/10/07 18:02 EST		0	43.0598N, 83.816W
A trained spotter reported a tree 3 inches in diameter and power lines down.				
<b>GENESEE COUNTY</b>				
3.0 S CLIO	07/10/07 18:15 EST		0	Thunderstorm Wind (EG 52 kt)
	07/10/07 18:15 EST		0	43.1366N, 83.72W
A trained spotter reported tree branches 10 inches in diameter down and estimated the wind gusts at 60 MPH.				
<b>GENESEE COUNTY</b>				
3.0 WSW MT MORRIS	07/10/07 18:20 EST		2K	Thunderstorm Wind (EG 52 kt)
	07/10/07 18:20 EST		0	43.1034N, 83.7349W
A trained spotter reported a large tree branch and power lines down.				
<b>GENESEE COUNTY</b>				
4.0 NW OTISVILLE	07/10/07 18:33 EST		0	Thunderstorm Wind (EG 52 kt)
	07/10/07 18:33 EST		0	43.2109N, 83.5761W
Trained spotters reported several trees 7 inches in diameter down.				
<b>LAPEER COUNTY</b>				
1.0 E COLUMBIAVILLE	07/10/07 18:33 EST		0	Thunderstorm Wind (EG 55 kt)
	07/10/07 18:33 EST		0	43.15N, 83.4002W
Law enforcement reported a large tree down.				
<b>SHIAWASSEE COUNTY</b>				
OWOSSO	07/10/07 18:45 EST		2K	Thunderstorm Wind (EG 55 kt)
	07/10/07 18:45 EST		0	43N, 84.17W
Law enforcement reported trees and power lines down.				
<b>SHIAWASSEE COUNTY</b>				
1.0 N JUDDVILLE	07/10/07 18:54 EST		2K	Thunderstorm Wind (EG 55 kt)
	07/10/07 18:54 EST		0	43.0645N, 83.98W
Law enforcement reported trees and power lines down.				
<b>SANILAC COUNTY</b>				
LEXINGTON HGTS	07/10/07 20:00 EST		2K	Thunderstorm Wind (EG 55 kt)
	07/10/07 20:00 EST		0	43.23N, 82.53W
Law enforcement reported trees and power lines down.				
<b>A strong low pressure system tracked from Lake Superior to James Bay. The associated strong cold front swept toward Lower Michigan on the late afternoon of July 10th. Southwesterly flow ahead of the front allowed a warm and moist unstable atmosphere to develop. Numerous pulse severe thunderstorms produced many reports of damaging wind gusts along and north of the I-69 corridor. There were no reports of hail. The most significant damage occurred in Fort Gratiot, where a strong thunderstorm downburst created straight line wind damage one mile wide covering two square miles.</b>				
<b>MIDLAND COUNTY</b>				
EDENVILLE	07/18/07 16:20 EST		0	Hail (0.75 in)
	07/18/07 16:20 EST		0	43.8N, 84.38W
<b>MIDLAND COUNTY</b>				



## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SANFORD	07/18/07 16:20 EST		0	Hail (1.75 in)
	07/18/07 16:20 EST		0	43.67N, 84.38W
<b>MIDLAND COUNTY</b>				
3.0 N SANFORD	07/18/07 16:28 EST		60K	Thunderstorm Wind (EG 70 kt)
	07/18/07 16:28 EST		0	43.7134N, 84.38W
A National Weather Service field survey confirmed that straight line winds as high as 80 MPH blew down numerous large trees, including 10 huge oak trees on M-30 near Dague Road. These trees caused significant damages after falling on one family's home, pole barn, car and truck. Total damages were estimated at \$60K.				
<b>MIDLAND COUNTY</b>				
1.0 NW SANFORD	07/18/07 16:30 EST		75K	Thunderstorm Wind (EG 61 kt)
	07/18/07 16:30 EST		0	43.6802N, 84.3941W
A National Weather Service field survey confirmed that straight line winds as high as 70 MPH blew down numerous large trees. At least 10 homes on Peterson Drive suffered damage from falling trees, some suffering heavy damage. Total damages to the homes were estimated at roughly \$75K.				
<b>MIDLAND COUNTY</b>				
SANFORD	07/18/07 16:35 EST		0	Hail (1.00 in)
	07/18/07 16:35 EST		0	43.67N, 84.38W
<b>MIDLAND COUNTY</b>				
MIDLAND	07/18/07 16:43 EST		0	Hail (1.00 in)
	07/18/07 16:43 EST		0	43.62N, 84.23W
<b>MIDLAND COUNTY</b>				
MIDLAND	07/18/07 16:43 EST		0	Thunderstorm Wind (EG 56 kt)
	07/18/07 16:43 EST		0	43.62N, 84.23W
Law enforcement reported a tree down on the northwest side of Midland.				
<b>MIDLAND COUNTY</b>				
MIDLAND	07/18/07 16:45 EST		0	Hail (1.00 in)
	07/18/07 16:45 EST		0	43.62N, 84.23W
<b>MIDLAND COUNTY</b>				
MIDLAND	07/18/07 16:48 EST		0	Hail (0.88 in)
	07/18/07 16:48 EST		0	43.62N, 84.23W
<b>SAGINAW COUNTY</b>				
2.5 SSW MARION SPGS	07/18/07 17:14 EST		10K	Thunderstorm Wind (EG 56 kt)
	07/18/07 17:14 EST		0	43.1966N, 84.349W
Law enforcement reported several large trees down on Harris Road near Meridian Road in Chapin Township. A few homes suffered minor damages.				
<b>SAGINAW COUNTY</b>				
BRANT	07/18/07 17:14 EST		2K	Thunderstorm Wind (EG 56 kt)
	07/18/07 17:14 EST		0	43.25N, 84.23W
Law enforcement reported trees down on power lines.				
<b>SHIAWASSEE COUNTY</b>				
1.0 SW NEW LOTHROP	07/18/07 17:44 EST		0	Thunderstorm Wind (EG 56 kt)
	07/18/07 17:44 EST		0	43.1098N, 83.984W
A National Weather Service field survey confirmed that straight line winds blew down a large tree and many large tree branches.				
<b>SAGINAW COUNTY</b>				
BRIDGEPORT	07/18/07 17:48 EST		0	Thunderstorm Wind (EG 56 kt)
	07/18/07 17:48 EST		0	43.37N, 83.9W
Law enforcement reported a tree down in Bridgeport.				

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GENESEE COUNTY</b>				
FLUSHING	07/18/07 17:56 EST		0	Thunderstorm Wind (EG 52 kt)
	07/18/07 17:56 EST		0	43.07N, 83.83W
Law enforcement reported several tree branches 6 inches in diameter down.				
<b>GENESEE COUNTY</b>				
2.0 N SWARTZ CREEK	07/18/07 18:00 EST		0	Thunderstorm Wind (EG 56 kt)
	07/18/07 18:00 EST		0	42.9789N, 83.82W
Law enforcement reported several large trees down.				
<b>GENESEE COUNTY</b>				
3.0 E FLUSHING	07/18/07 18:01 EST		0	Thunderstorm Wind (EG 52 kt)
	07/18/07 18:01 EST		0	43.07N, 83.7706W
A trained spotter reported large limbs down.				
<b>GENESEE COUNTY</b>				
FLINT	07/18/07 18:41 EST		0	Thunderstorm Wind (EG 55 kt)
	07/18/07 18:41 EST		0	43.03N, 83.68W
A trained spotter reported a large tree down.				
<b>LAPEER COUNTY</b>				
HADLEY	07/18/07 18:45 EST		0	Thunderstorm Wind (EG 52 kt)
	07/18/07 18:45 EST		0	42.95N, 83.4W
A trained spotter reported a large tree down and estimated the wind gusts at 60 MPH.				
<b>SAGINAW COUNTY</b>				
MERRILL	07/18/07 19:06 EST		0	Thunderstorm Wind (EG 56 kt)
	07/18/07 19:06 EST		0	43.4N, 84.33W
A trained spotter reported a large tree down.				
<b>OAKLAND COUNTY</b>				
LAKE ORION	07/18/07 19:20 EST		0	Hail (0.75 in)
	07/18/07 19:20 EST		0	42.78N, 83.23W
<b>SAGINAW COUNTY</b>				
HEMLOCK	07/18/07 19:20 EST		10K	Lightning
	07/18/07 19:20 EST		0	43.42N, 84.23W
Law enforcement reported a house struck by lightning.				
<b>SAGINAW COUNTY</b>				
3.0 N ST CHARLES	07/18/07 19:36 EST		50K	Thunderstorm Wind (EG 70 kt)
	07/18/07 19:36 EST		0	43.3434N, 84.15W
A National Weather Service field survey confirmed that 70 to 80 MPH straight line winds blew down numerous large trees. Several homes were damaged from the falling trees.				
<p><b>A very unstable airmass coupled with a stalled out front was enough to fuel the development of two extremely intense thunderstorms. One of the storms managed to go from Mount Pleasant all the way to eastern Oakland County. The storm in Midland County became so intense that it prompted the issuance of a Tornado Warning. National Weather Service field surveys identified damages consistent with intense straight-line winds associated with thunderstorm downbursts. The Sanford area was hardest hit with many homes suffering damages from falling trees. Many local businesses in Sanford and Midland implemented tornado safety plans, moving customers to designated shelter areas. St Charles in Saginaw County was another area hit hard from downburst winds approaching 80 MPH. Total damages from the entire event approached nearly a quarter of a million dollars.</b></p>				
<b>SHIAWASSEE COUNTY</b>				

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAINGSBURG	07/19/07 13:31 EST		0	Thunderstorm Wind (EG 56 kt)
	07/19/07 13:31 EST		0	42.9N, 84.35W
Law enforcement reported numerous trees and power lines down.				
<b>SHIAWASSEE COUNTY</b>				
OWOSSO	07/19/07 13:39 EST		0	Thunderstorm Wind (EG 56 kt)
	07/19/07 13:39 EST		0	43N, 84.17W
Law enforcement reported numerous trees down.				
<b>LIVINGSTON COUNTY</b>				
2.0 W HOWELL	07/19/07 14:20 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/07 14:20 EST		0	42.6N, 83.9693W
A National Weather Service employee reported large tree branches down.				
<b>LIVINGSTON COUNTY</b>				
2.0 W BRIGHTON	07/19/07 14:22 EST		0	Thunderstorm Wind (EG 56 kt)
	07/19/07 14:22 EST		0	42.53N, 83.8092W
A trained spotter reported many large tree branches down and estimated the wind gusts at 65 MPH.				
<b>LIVINGSTON COUNTY</b>				
HAMBURG	07/19/07 14:30 EST		25K	Thunderstorm Wind (EG 65 kt)
	07/19/07 14:30 EST		0	42.45N, 83.8W
A local Television station reported dozens of trees down. One tree fell through the roof of the Livingston County Wildlife and Conservation Club. No one was injured. Total property damages were estimated at roughly \$25K.				
<b>WASHTENAW COUNTY</b>				
6.0 N DEXTER	07/19/07 14:30 EST		3K	Thunderstorm Wind (EG 61 kt)
	07/19/07 14:30 EST		0	42.4167N, 83.87W
The public reported large trees down. The high winds also lifted and flipped a pontoon boat.				
<b>LIVINGSTON COUNTY</b>				
BRIGHTON	07/19/07 14:35 EST		0	Thunderstorm Wind (EG 58 kt)
	07/19/07 14:35 EST		0	42.53N, 83.77W
Law enforcement reported several large trees down.				
<b>WASHTENAW COUNTY</b>				
4.0 N DEXTER	07/19/07 14:35 EST		0	Thunderstorm Wind (EG 56 kt)
	07/19/07 14:35 EST		0	42.3878N, 83.87W
Emergency management reported a large tree down.				
<b>OAKLAND COUNTY</b>				
4.0 N NOVI	07/19/07 14:40 EST		0	Thunderstorm Wind (EG 56 kt)
	07/19/07 14:40 EST		0	42.5378N, 83.47W
A National Weather Service employee reported two trees down.				
<b>OAKLAND COUNTY</b>				
NOVI	07/19/07 14:40 EST		0	Thunderstorm Wind (EG 52 kt)
	07/19/07 14:40 EST		0	42.48N, 83.47W
A trained spotter reported large tree branches down.				
<b>WASHTENAW COUNTY</b>				
WHITMORE LAKE	07/19/07 14:40 EST		25K	Thunderstorm Wind (EG 65 kt)
	07/19/07 14:40 EST		0	42.42N, 83.75W

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Emergency management and trained spotters reported numerous large trees down. A few homes suffered minor damages.				
<b>WASHTENAW COUNTY</b>				
SALEM	07/19/07 14:45 EST	0		Thunderstorm Wind (EG 58 kt)
	07/19/07 14:45 EST	0		42.4N, 83.57W
Emergency management received numerous reports of trees and power lines down.				
<b>OAKLAND COUNTY</b>				
FARMINGTON	07/19/07 15:00 EST	0		Thunderstorm Wind (EG 52 kt)
	07/19/07 15:00 EST	0		42.47N, 83.37W
A National Weather Service employee reported large tree branches down.				
<b>WAYNE COUNTY</b>				
DETROIT	07/19/07 15:10 EST	0		Thunderstorm Wind (EG 56 kt)
	07/19/07 15:10 EST	0		42.33N, 83.07W
Local television stations reported large trees down on the northwest side of Detroit.				
<b>WAYNE COUNTY</b>				
WESTLAND	07/19/07 15:12 EST	0		Thunderstorm Wind (EG 56 kt)
	07/19/07 15:12 EST	0		42.32N, 83.3W
A trained spotter reported a large tree down.				
A cold front stalled out over the area and combined with an upper level low pressure system to support the development of severe thunderstorms. This event was very quick with the storms moving from Howell to just south of Detroit at 40 to 50 MPH. The most intense storm produced significant wind damage from southern Livingston County into northeast Washtenaw County. A tornado warning was issued for Washtenaw County. A National Weather Service field survey identified damages consistent with intense straight-line winds associated with thunderstorm downbursts. The storms knocked out power to 60 thousand customers in Southeast Lower Michigan. Half of downtown Brighton lost power, forcing numerous businesses to close. Several homes suffered damages from falling trees. There were no reports of any serious damages.				
<b>SHIAWASSEE COUNTY</b>				
5.0 W NEW LOTHROP	07/26/07 17:20 EST	0		Hail (0.75 in)
	07/26/07 17:20 EST	0		43.12N, 84.069W
<b>SHIAWASSEE COUNTY</b>				
5.0 W NEW LOTHROP	07/26/07 17:20 EST	0		Thunderstorm Wind (EG 50 kt)
	07/26/07 17:20 EST	0		43.12N, 84.069W
Law enforcement estimated wind gusts at 58 MPH.				
<b>SHIAWASSEE COUNTY</b>				
JUDDVILLE	07/26/07 17:40 EST	0		Hail (1.00 in)
	07/26/07 17:55 EST	0		43.05N, 83.98W
<b>SHIAWASSEE COUNTY</b>				
4.0 S NEW LOTHROP	07/26/07 17:48 EST	0		Hail (1.00 in)
	07/26/07 17:48 EST	0		43.0622N, 83.97W
Trained spotters reported quarter sized hail covering the ground.				
<b>GENESEE COUNTY</b>				
1.0 NW GAINES	07/26/07 18:00 EST	0		Hail (1.25 in)
	07/26/07 18:30 EST	0		42.8802N, 83.914W
<b>GENESEE COUNTY</b>				
1.4 N LENNON	07/26/07 18:02 EST	0		Hail (1.00 in)
	07/26/07 18:02 EST	0		43N, 83.92W
A trained spotter reported quarter sized hail near the intersection of M-21 and M-13.				

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>SHIAWASSEE COUNTY</b>				
4.9 SSE JUDDVILLE	07/26/07 18:02 EST		0	Hail (1.00 in)
	07/26/07 18:02 EST		0	42.9851N, 83.9432W
<b>SHIAWASSEE COUNTY</b>				
4.2 S JUDDVILLE	07/26/07 18:05 EST		0	Thunderstorm Wind (EG 52 kt)
	07/26/07 18:05 EST		0	42.9896N, 83.98W
A trained spotter estimated wind gusts at 60 MPH.				
<b>SHIAWASSEE COUNTY</b>				
DURAND	07/26/07 18:10 EST		2.80M	Hail (1.75 in)
	07/26/07 19:00 EST		2M	42.92N, 83.98W
Large hail hammered areas in a 3 mile radius around Durand for 50 minutes. The hail, at times, was as big as golf balls. A local newspaper reported \$1.8M in hail damages to homes alone. Hundreds of vehicles also took a beating. Local experts estimated damages at an average of \$4K per vehicle. This information was used to estimate \$1M in total damages to vehicles. Many crops in the area were also destroyed. One farmer estimated \$400K in losses to soybeans alone. Total crop damages were estimated at a conservative \$2M, bringing the total cost of this hailstorm to nearly \$5M.				
<b>TUSCOLA COUNTY</b>				
3.6 E DEFORD	07/26/07 19:20 EST		0	Hail (1.00 in)
	07/26/07 19:20 EST		0	43.52N, 83.1286W
<b>LENAWEE COUNTY</b>				
2.0 NW ADRIAN	07/26/07 19:34 EST		0	Hail (1.50 in)
	07/26/07 19:34 EST		0	41.9205N, 84.0575W
<b>LENAWEE COUNTY</b>				
2.0 W ADRIAN	07/26/07 19:34 EST		0	Hail (0.75 in)
	07/26/07 19:34 EST		0	41.9N, 84.0689W
<b>LENAWEE COUNTY</b>				
2.5 NW ADRIAN	07/26/07 19:39 EST		75K	Hail (1.75 in)
	07/26/07 19:39 EST		0	41.9254N, 84.0641W
Hail the size of golf balls pelted the area, denting many vehicles. Total property damages were estimated at roughly \$75K.				
<b>LENAWEE COUNTY</b>				
ADRIAN	07/26/07 19:42 EST		0.25M	Lightning
	07/26/07 19:42 EST		0	41.9N, 84.03W
A local newspaper reported \$250K in lightning damages to computer, radio and telephone equipment at county buildings in downtown Adrian.				
<b>LENAWEE COUNTY</b>				
ADRIAN	07/26/07 19:42 EST		75K	Hail (1.75 in)
	07/26/07 19:45 EST		0	41.9N, 84.03W
A local newspaper reported hail damages to sheriff's department patrol cars at the Lenawee County Fair. Total property damages, including other vehicles parked in the fairgrounds parking lot, were estimated at roughly \$75K.				
<b>LENAWEE COUNTY</b>				
1.1 SE ADRIAN	07/26/07 19:50 EST		50K	Lightning
	07/26/07 19:50 EST		0	41.8912N, 84.0132W
A local newspaper reported lightning damage to electrical systems at Delphi Automotive Systems. Total property damages were estimated at roughly \$50K.				
<b>LENAWEE COUNTY</b>				
0.7 N DEERFIELD	07/26/07 20:23 EST		0	Hail (0.88 in)
	07/26/07 20:23 EST		0	41.89N, 83.78W
<b>MONROE COUNTY</b>				

## Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
0.5 E PETERSBURG	07/26/07 20:35 EST		0	Hail (1.50 in)
	07/26/07 20:35 EST		0	41.9N, 83.7101W
<b>MONROE COUNTY</b>				
0.7 N SAMARIA	07/26/07 20:35 EST		0	Hail (1.50 in)
	07/26/07 20:35 EST		0	41.81N, 83.58W
<b>MONROE COUNTY</b>				
LAMBERTVILLE	07/26/07 20:37 EST		0	Hail (0.75 in)
	07/26/07 20:37 EST		0	41.77N, 83.63W
<b>WASHTENAW COUNTY</b>				
4.0 N SALINE	07/26/07 21:18 EST		0	Hail (1.50 in)
	07/26/07 21:18 EST		0	42.2278N, 83.77W
<b>WASHTENAW COUNTY</b>				
4.0 W SALINE	07/26/07 21:18 EST		0	Thunderstorm Wind (EG 52 kt)
	07/26/07 21:18 EST		0	42.17N, 83.848W
A trained spotter estimated wind gusts at 60 MPH.				
<b>WASHTENAW COUNTY</b>				
0.9 NW SALINE	07/26/07 21:20 EST		0	Hail (0.88 in)
	07/26/07 21:20 EST		0	42.1788N, 83.7819W
<b>WASHTENAW COUNTY</b>				
0.9 NW WHITTAKER	07/26/07 21:35 EST		0	Hail (0.75 in)
	07/26/07 21:35 EST		0	42.1388N, 83.6119W
<b>WASHTENAW COUNTY</b>				
5.0 NE MILAN	07/26/07 21:35 EST		0	Thunderstorm Wind (EG 52 kt)
	07/26/07 21:35 EST		0	42.1311N, 83.6011W
A trained spotter reported large tree branches down and estimated the wind gusts at 60 MPH.				
<b>WASHTENAW COUNTY</b>				
7.0 E SALINE	07/26/07 21:35 EST		0	Thunderstorm Wind (EG 52 kt)
	07/26/07 21:35 EST		0	42.17N, 83.6335W
Law enforcement estimated wind gusts at 60 MPH.				
<b>WASHTENAW COUNTY</b>				
0.7 N WHITTAKER	07/26/07 21:43 EST		0	Hail (0.75 in)
	07/26/07 21:43 EST		0	42.14N, 83.6W
<b>WAYNE COUNTY</b>				
1.5 SSW SUMPTER	07/26/07 21:53 EST		0	Thunderstorm Wind (EG 52 kt)
	07/26/07 21:53 EST		0	42.1502N, 83.4811W

Law enforcement reported trees down.

This event will be remembered for the extreme intensity of large hail it generated. A most unusual hailstorm pounded areas in a 3 mile radius around the city of Durand. Severe hail fell for nearly an hour. At times, the hail was as big as golf balls. Hundreds of homes and vehicles suffered significant damages, totaling nearly 5 million dollars in this area alone. Large hail also caused significant damages to cars in and around the Adrian area. Mostly hail reports were received, but we did get a few wind damage reports from thunderstorm downbursts.